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# NORTHWESTERN UNIVERSITY BULLETIN

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## GENERAL CATALOG OF THE DENTAL SCHOOL 1914-1915



Published Weekly by Northwestern University  
Northwestern University Building

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July 3, 1914



# Northwestern University

EVANSTON and CHICAGO

## GENERAL CATALOG OF THE DENTAL SCHOOL 1914-1915



Published by the University  
July, 1914

# NORTHWESTERN UNIVERSITY

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President, ABRAM WINEGARDNER HARRIS, Sc.D., LL.D.

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# Dental School Calendar

1914-1915

1914

- Sept. 28 Mon. Examinations for advanced standing begin  
Oct. 6 Tue. Academic year begins  
Oct. 16 Fri. Last day for entrance in course  
Nov. 26 Thu. Thanksgiving Day  
Dec. 19 Sat. Christmas recess, to January 4, Monday, inclusive

1915

- Feb. 1 Mon. Mid-year examinations begin  
Feb. 11 Thu. Second semester begins  
Feb. 12 Fri. Lincoln's Birthday  
Feb. 22 Mon. Washington's Birthday  
May 20 Thu. Senior examinations begin  
May 27 Thu. Junior and Freshman examinations begin  
May 29 Sat. Memorial Day  
June 7 Mon. Alumni and Commencement Banquet  
June 8 Tue. Home Coming Alumni Clinic  
June 9 Wed. FIFTY-SEVENTH ANNUAL COMMENCEMENT  
June 10 Thu. Practitioner's Course begins  
July 7 Wed. Practitioner's Course ends

## The University

ON the last day of May, in the year 1850, there met in the City of Chicago, at the office of Grant Goodrich, 109 Lake Street, near Dearborn, nine men, Richard A. Blanchard, Jabez K. Botsford, Andrew J. Brown, Henry W. Clark, John Evans, Grant Goodrich, Zadoc Hall, Richard Haney, and Orrington Lunt, to consider the founding of a university in the vicinity of Chicago. They agreed that "the interests of Christian learning demand the immediate establishment of a University in the North-west," and appointed a committee to petition the General Assembly for a charter. January 28, in the next year, 1851, Governor French signed the Act that incorporated "the Trustees of the Northwestern University." The name of the corporation has since been changed to Northwestern University.

The first Board of Trustees consisted of thirty-six persons, some of whom were representatives of annual conferences of the Methodist Episcopal Church and some residents of Chicago or vicinity. The corporation as at present constituted consists of thirty-six trustees elected by the Board, and two elected by each of three annual conferences of the Methodist Episcopal Church, making a total of forty-two.

The charter provides that a majority of the Board shall be members of the Methodist Episcopal Church, but that no particular religious faith shall be required of those who become students at the institution.

Amendments have provided that other chartered institutions may become departments of the University; that all property of whatever kind or description belonging to or owned by the said corporation shall be forever free from taxation for any and all purposes; that no spirituous, vinous, or fermented liquors shall be sold under license or otherwise, within four miles of the location of the University.

After considering several locations in the vicinity of Chicago, the Trustees selected for the University a tract of land on the shore of Lake Michigan, twelve miles north of the heart of Chicago. Here in 1855 the first University building was erected, and about this location has grown up the City of Evanston, a beautiful residential city of twenty-five thousand inhabitants. The professional schools of Medicine, Law, Pharmacy, Dentistry, and Commerce are situated in the city of Chicago.

# The Dental School

## HISTORICAL ACCOUNT

**T**HE DENTAL SCHOOL was founded and is maintained for the purpose of preparing young men and young women in the most thorough manner for the practice of dentistry, and for the promotion of dental science and dental literature.

The Dental School was organized in 1887 and three years later became a department of the University. In 1896 it absorbed the American College of Dental Surgery and for some years occupied the building on Franklin and Madison Streets, Chicago, formerly occupied by that school. It is now located in Northwestern University Building, at the corner of Lake and Dearborn Streets, Chicago, occupying the upper three floors of the building, over 60,000 square feet.

The clinic room, sufficient in extent to accommodate the great clinic and the offices connected with it, is of the best design of construction, consisting of a single room with arched ceiling. It is on the sixth floor, with free light on two sides and abundant skylight. Adjoining the operative clinic is the prosthetic clinic, and on the same floor is the senior Prosthetic laboratory for crown and bridge work, the laboratory for porcelain and cast metal inlay work, an impression room, and two rooms and waiting room for extracting, and a room devoted to radiographic work. The lecture rooms, three in number, are arranged on the amphitheater plan; each accommodates 225 students. Two are for the ordinary class lecture work, and one for the oral surgery clinic which has a waiting-room for surgical patients, a room for diagnosis and the preparation of patients, and a recovery room with sufficient beds for the temporary care of patients. Other rooms are the anatomical laboratory, which is placed well apart, the first year and the second year prosthetic laboratories, the operative technic laboratory, the first year and the second year chemical laboratories, the laboratory for histology and bacteriology, the photographic laboratory, the museum, the reading room, and library.

Northwestern University Building is in the transportation center of over three millions of people living within a radius of forty miles, a location especially advantageous for obtaining the great number of clinical patients needed in a dental school.



## SITUATION AND SURROUNDINGS

The central location of the school and its convenient access from every point affords many and peculiar advantages to its students. It gives them the widest possible range of choice of residence while attending the school, without inconvenience in coming and going. It also gives the school the widest range of territory from which to draw the extensive clinic so necessary to a great dental school. The patients for this clinic come from all parts of the city of Chicago and its suburbs. The personal influence of the students of the school, each one of whom draws from his own friends and acquaintances, made in and about his place of residence, is an invaluable adjunct to the number who come simply as acquaintances of the school. Patients who come as the friends of students make up the personal clinical practice of the individual student.

In this the out-of-town students seem to be in no respect less favored than the student whose home is in the city. This gaining, and holding, a personal clinical practice under the supervision of the instructors in the clinic rooms has come to be one of the features of this school that has a telling effect upon the after-practice of its students. By this plan of work the student not only learns the theory of practice and the manipulations of practical operations in dentistry, but he passes at once to the work of real experience in building a practice for himself; in gaining that skill in professional comity and personal manner between himself and his patients, which is as necessary to him in after years, in drawing together and maintaining a practice, as his knowledge of dental diseases and his skill in their treatment.

For these reasons the residence of students in groups in widely different portions of the city is favored. This also gives the benefits of a more homelike life, while giving in the aggregate a far better conception of life in a great city and decidedly better opportunity to draw upon its advantages, while shunning the disadvantages of large gatherings of students in a single locality.

Chicago is a great city and gives many opportunities to the student who learns to avail himself of them. Lincoln Park on the north offers, besides its beautiful pleasure grounds, some extensive botanical gardens and winter conservatories, where all manner of plants may be enjoyed and studied; a fine zoological collection, where a large variety of animal and bird life may be studied, and the Museum of Natural History, in which there is a very large collection of birds, animals and fossil remains of extinct animal life.



Jackson and Washington Parks on the south, besides their extensive pleasure grounds, also offer splendid botanical gardens and winter conservatories, while the Field Columbian Museum offers a rare collection of Natural History specimens especially suited for the study of comparative dental anatomy, of modern and ancient skulls and the condition of the teeth in the various races and types of men in different ages. The admission to this museum is free to students on presentation of their matriculation tickets to this school.

#### OTHER LIBRARIES

A number of libraries are accessible to students who have taste for study, or for looking up subjects of scientific or literary interest, or in connection with special studies.

The University library collections offer very abundant facilities for students. They are ample in the number of books adapted to the different schools and are so situated as to be easily accessible; generally within the school buildings. They consist of:

The College collection.

The Law collection.

The Medical collection.

The Pharmacy collection.

The Theodore Menges Library of the Dental School, and

The Theological collection.

CHICAGO LIBRARY (462,361 volumes, January, 1912) is on Michigan Avenue and Washington Street, five minutes' walk from the school. It is one of the finest libraries in the country. Students may receive books from this library when vouched for by responsible persons known to the officials. This library has also many branch offices in different parts of the city, from which books may be received on application. These are convenient to many of the boarding places of students.

THE NEWBERRY LIBRARY is very large (285,000 volumes, January, 1912), and, besides general works, has also a large medical and dental library. It is on North Clark Street and Walton Place, and may be reached in a ten minutes' walk. This is a reference library, and books can be used only in its reading rooms.

THE JOHN CRERAR LIBRARY (270,000 volumes, January, 1912) occupies one and one-half floors in the Marshall Field Building, corner Wabash Avenue and Washington Street. It is devoted mainly to the natural, the physical and the social sciences, with their applications. It is a most excellent collection of books. It is a reference library, and its books are used only in its reading rooms.

## The Faculty

Abram Winegardner Harris, Sc.D., LL.D.  
President

Greene Vardiman Black, M.D., D.D.S., Sc.D., LL.D.  
Professor of Special Pathology, Operative Dentistry, Bacteriology, Materia  
Medica, and Therapeutics; Dean

Charles Rudolph Edward Koch, D.D.S.  
Lecturer on Dental Economics; Secretary

Thomas Lewis Gilmer, M.D., Sc.D., D.D.S.  
Professor of Oral Surgery

Edmund Noyes, D.D.S.  
Professor of Dental Jurisprudence and Ethics

James Harrison Prothero, D.D.S.  
Professor of Prosthetic Technics, Prosthetic Dentistry, and Metallography

Twing Brooks Wiggin, M.D.  
Professor of Physiology; Instructor in Physical Diagnosis

George Amos Dorsey, Ph.D.  
Professor of Comparative Anatomy

Ira Benson Sellery, D.D.S.  
Professor of Orthodontia

Harry Mann Gordin, Ph.D.  
Professor of Chemistry

Arthur Davenport Black, M.A., M.D., D.D.S.  
Professor of Operative Dentistry; Assistant in Oral Surgery

Eugene Shaw Willard, D.D.S.  
Professor of Bacteriology; Assistant in Operative Dentistry

Fred William Gethro, D.D.S.  
Professor of Dental Anatomy and Operative Technics; Assistant in  
Operative Dentistry

Harry Isaac Van Tuyl, B.S., M.D., D.D.S.  
Professor of Anatomy

George Corwin Poundstone, D.D.S.  
Professor of Materia Medica and Therapeutics

Herbert Anthony Potts, D.D.S., M.D.  
Professor of Pathology; Lecturer on Anæsthesia; Assistant in Oral Surgery

Clayton Frank Bloomfield Stowell, D.D.S.  
Assistant Professor of Comparative Anatomy; Demonstrator in Extracting

Joseph Eisenstaedt, M.D., D.D.S.  
Acting Professor in Histology

George Buchanan Macfarlane, D.D.S.  
Clinical Instructor in Operative Dentistry

Percy Benjamin DeWitt Idler, D.D.S.  
Clinical Instructor in Operative Dentistry

Lucian Willis Strong, D.D.S.  
Clinical Instructor in Prosthetic Dentistry

Hillis Talley Brown, D.D.S.  
Senior Instructor in Anatomy

Alvin Thompson, M.D.  
Instructor in Histology

Harry Bernard Bernhardt, M.D.  
Assistant in Histology

Merton Meyne Postle, D.D.S.  
Instructor in Prosthetic Dentistry

Leigh Edward Butler, D.D.S.  
Instructor in Operative Dentistry

Luther P. Basford, D.D.S.  
Examiner of Patients

George Herbert Sutphen, Ph.C.  
Assistant in Chemistry

George Edward Meyer, D.D.S.  
Assistant in Oral Surgery

Floyd De Witte Leach, D.D.S.  
Radiographer and Lecturer in Radiography

Roscoe Leaton Stout, D.D.S.  
Instructor in Prosthetic Technics, in Charge of Prosthetic Laboratory

Allison Lee Tull, B.A., D.D.S.  
Assistant in Materia Medica

Michael Joseph Buckley, D.D.S.  
Special Demonstrator in Orthodontia and Operative Dentistry

Carl Martin Holland, D.D.S.  
Assistant in Operative Dentistry

Earl Todd Young, D.D.S.  
Demonstrator in Operative Dentistry

James Leonard Morlan, B.S., D.D.S.  
Demonstrator in Operative Dentistry

Charles West Freeman, D.D.S.  
Demonstrator in Operative Dentistry

John Gordinier Pelton, D.D.S.  
Demonstrator in Operative Dentistry

Roy Arthur Dallager, D.D.S.  
Demonstrator in Operative Dentistry

George J. Krakow, D.D.S.  
Demonstrator in Operative Dentistry

Raymond Wesley Horlick, D.D.S.  
Demonstrator in Operative Dentistry

Thomas White, D.D.S.  
Demonstrator in Operative Dentistry

Ernest Kennedy, D.D.S.  
Demonstrator in Prosthetic Dentistry

Robert Edwin Blackwell, D.D.S.  
Demonstrator in Operative Technic

## Admission and Instruction

A candidate for admission to the Dental School will be accepted upon presentation of a diploma or equivalent certificate from an accredited high school or kindred educational institution, which requires not less than 15 High School units before graduation, or upon passing a satisfactory examination. The diploma must be signed by a superintendent of schools, the principal of a high school, or other responsible school officer. A certificate showing that a candidate has been graduated from an accredited high school, or from a school giving an equivalent course, signed by a city or county superintendent of schools, or by a state superintendent of public instruction, will be accepted as the equivalent of a diploma.

A candidate who does not present such diploma or certificate must take an examination before a state superintendent of public instruction, or his deputy, and bring a report showing that the candidate has a preliminary education equivalent to that to be obtained in an accredited high school where at least 15 High School units are required before graduation.

This School will receive no student who is not present within ten days after the opening day of the session in each year, or in case of necessary delays, by reason of illness properly certified by the attending physician, within twenty days after the opening day. Undergraduate students are not received for special courses in dentistry.

Students registering agree thereby to accept the discipline imposed by the Faculty.

It is desirable that students should register early, since the order of assignment of seats in the lecture halls is based upon the order of registration.

### ADMISSION TO ADVANCED STANDING

Students from high schools and colleges, wishing credit for courses parallel to courses required in this School, should bring credentials showing the time spent on these subjects and should present their note books written in these courses.

Students who present certificates from other recognized dental schools covering subjects required in this School, may be credited with such studies if their preliminary education was such as would have admitted them to this School as Freshmen, and if the credentials are satisfactory to the Dean and to the professors in the respective departments; but credits are not accepted unconditionally. The Faculty reserves the right to examine any applicant for advanced standing, if in its judgment that should be desirable. When admitted to the third year the candidate must do one full year's work in this School.



Graduates from recognized schools in medicine are credited with one year of time.

Examinations for advanced standing and for the removal of conditions in the Dental course will begin on September 28th, 1914—one week before the course begins—and no make-up examinations will be given at a later time.

### Course for the Degree of Doctor of Dental Surgery\*

The course covers three years. The year begins on the first Tuesday in October and closes on Commencement Day of the University in June. There are thirty-two weeks of actual instruction given, six days in each week.

Students for the regular course are received only during the first ten days of the first semester. Students desiring to pursue special studies may be received at any time.

For regular students who desire to extend their studies to four or more years, a special arrangement of studies will be provided.

A post graduate, or practitioner's course has been specially arranged which begins the day after Commencement in each year, and continues during four weeks thereafter.

#### METHODS OF INSTRUCTION

The studies of the course are grouped by departments, the work of each department proceeding from the general and fundamental subjects to the specialized and advanced.

The work in the departments is planned with reference to that of other departments, and the greatest care is taken that the whole shall be so correlated that the student in taking up a new subject will find himself prepared by work done in other departments.

### Schedule of Courses

Students are expected to take the courses in the order enumerated, but some deviation from this rule may be allowed in cases approved by the Faculty.

Each of the departments is presented under the headings as given in the table below, separately and completely, and in alphabetical order, and courses are described fully in the order of the letters.

#### FIRST YEAR WORK

Anatomy a, b, c, d, e, f, g, h.	Dental Anatomy a, b.
Chemistry a, b, c, d.	Physiology a, b, c, d, e.
Histology a, b, c.	Prosthetic Technics a, b, c, d, e.
Operative Technics c, d, e, f, g, h.	

\*It is contemplated to extend the course to four years beginning with 1916-17.



## SECOND YEAR WORK

Chemistry e, f, g, h.	Operative Dentistry i, j, k.
Histology d, e, f, g.	General Pathology a, b.
Materia Medica and Therapeutics	Physiology f, g.
a, b, c.	Prosthetic Dentistry f, g, h, i.

## THIRD YEAR WORK

Comparative Anatomy, a.	Anaesthesia, g, h, i.
Ethics, Jurisprudence, and Dental	Radiography, j.
Economics, a, b.	Orthodontia, a, b, c.
Operative Dentistry, l, m, n, o,	Pathology and Therapeutics, a, b,
p, q.	c, d, e, f, g, h.
Bacteriology, w. x.	Prosthetic Dentistry, j, k, l.
Oral Surgery, a, b, c, d, e, f.	

## Anatomy

PROFESSOR VAN TUYL, DR. BROWN, AND ASSISTANTS

## FIRST YEAR

*First Semester*

- a. *Osteology of the Head and Neck*—Twelve weeks, two lectures and quizzes a week. Professor Van Tuyl.
- b. *Osteology of the Trunk and Extremities*—Twelve weeks, two lectures and quizzes a week. Professor Van Tuyl.
- c. *Human Dissections*—Class divided into sections, each section two three-hour periods a week. Professor Van Tuyl, Dr. Brown and Assistants.
- d. *Recitations on Dissections*—Two hours a week. Dr. Brown and Assistants.

## FIRST YEAR

*Second Semester*

- e. *Angiology, Myology, Neurology*—Twelve weeks, one lecture and quiz a week. Professor Van Tuyl.
- f. *Visceral Anatomy*—Eight weeks, four lectures and quizzes a week. Professor Van Tuyl.
- g. *Human Dissections*—Class divided into sections, each section two three-hour periods a week. Professor Van Tuyl, Dr. Brown and Assistants.
- h. *Recitations on Dissections*—Two hours a week. Dr. Brown.

## Chemistry

PROFESSOR GORDIN AND ASSISTANTS

### FIRST YEAR

a. *General and Inorganic Chemistry*—Lectures and recitations. First semester. Two hours a week. Professor Gordin.

b. *Chemical Laboratory*—Illustrative experiments in General and Inorganic Chemistry. First semester. Class divided into sections, each section six hours a week. Professor Gordin and Assistants.

c. *General and Inorganic Chemistry*—Lectures and recitations. Second semester. Two hours a week. Professor Gordin.

d. *Laboratory*—The metals and their compounds. Qualitative chemical analysis of unknown mixtures, particularly bases and alloys. Second semester. Class divided into sections, each section six hours a week. Professor Gordin and Assistants.

### SECOND YEAR

e. *Organic Chemistry*—Lectures and quizzes. One hour a week. Professor Gordin.

f. *Laboratory*—Quantitative chemical analysis of dental alloys, etc. Refining of gold, silver and other metals. Laboratory study of cements and other filling materials. Assay of dental alloys for gold, silver, tin, platinum. Practical problems of dental chemistry. First semester. Six hours a week. Professor Gordin and Assistants.

g. *Laboratory*—Illustrative experiments in Organic Chemistry. Analysis of saliva. Urine analysis. Second semester. Class divided into sections, each section three hours a week. Professor Gordin and Assistants.

## Comparative Dental Anatomy

PROFESSOR DORSEY

### THIRD YEAR

a. *Evolution*—The meaning of similarity of structure; natural selection; changes in organs; correlation of growth between parts; principles of heredity and of fixity of species; tooth forms; definitions and descriptions of the varieties of forms; the typical mammalian dentation; classification of the animal kingdom, with concise descriptions of the typical characteristics of each. First semester. Two lectures a week. Professor Dorsey.

## Professional Ethics, Dental Jurisprudence, and Dental Economics

PROFESSOR NOYES AND DR. KOCH

THIRD YEAR

a. *Ethics*—Elementary principles of ethics; professional ethics; state laws relating to dentistry; Illinois dental law; dental jurisprudence; general review. First semester. One lecture a week. Professor Edmund Noyes.

b. *Dental Economics*—This course embraces practice building, methods of obtaining and retaining patients, business relations between the dentist and his patients, fees, accounts, records of operations, presentation and collection of accounts, methods of economy in the conduct of an office. Second semester. One lecture a week. Dr. Koch.

## Histology

PROFESSOR EISENSTAEDT AND ASSISTANTS

FIRST YEAR

a. *Lecture Course*—The construction and the use of the microscope. A study of cell structure and functions, of the elementary tissues; histology of the organs; circulatory, lymphatic, alimentary tract, and accessory glands, respiratory system, urinary organs, and skin. One lecture a week. Professor Eisenstaedt.

b. *Laboratory Course*—A laboratory study of the subjects of the lecture course. Class divided into sections, each section one three-hour period a week. Professor Eisenstaedt and Assistants.

c. *Quizzes and Recitations*—One hour a week.

SECOND YEAR

d. *The Dental Tissues*—Enamel; the peridental membranes; periosteum; bone; mucous membranes and other soft tissues of the mouth. One and two-thirds semesters. One lecture a week. Professor Eisenstaedt.

e. *Embryology*—A short course. One lecture a week. One-third of a semester. Professor Eisenstaedt.

f. *Laboratory Course*—A laboratory study of the subjects of lecture courses d and e. Class divided into sections, each section one three-hour period a week. Professor Eisenstaedt and Assistants.

g. *Quizzes and Recitations*—One hour a week.

## Physiology

PROFESSOR WIGGIN

### FIRST YEAR

a. *General Physiology*—The structure of the elementary tissue; the chemical composition of the body; the blood; the circulation of the blood. First semester. Two lectures a week. Professor Wiggin.

b. *Quiz Class Work*—First semester. Class divided into sections, each section one hour a week.

c. *Respiration*—Secretion; food digestion; metabolism; nutrition and diet; animal heat; excretion; muscle; nerve physiology; production of voice. Second semester. Two lectures a week. Professor Wiggin.

d. *Quiz Class Work*—Second semester. Class divided into sections, each section one hour a week.

e. *Physical Diagnosis*—Class divided into sections, each section one hour a week during four weeks.

### SECOND YEAR

f. *The Central Nervous System*—Brain; spinal cord; reproductive organs; development. Lectures and recitations. One hour a week. Professor Wiggin.

g. *Quiz Class Work*—Class divided into sections, each section one hour a week.

## General Pathology

PROFESSOR POTTS

### SECOND YEAR

a. *Etiology of Disease*—Disorders of nutrition and metabolism; diabetes; fever; general circulatory disturbances; local hyperemia; local anemia; hemorrhage; embolism; infarction; thrombosis; retrogressive processes; atrophy; infiltrations and degenerations; necrosis; inflammation; progressive tissue changes; neoplasms; infections; granulomata; bacteria, and diseases caused by them. Lectures and recitations. One hour a week. Professor Potts.

b. *Quiz Class in Sections*—Second semester. Also *Laboratory Course*—Class divided into sections, each section two hours a week. Professor Potts and Assistant.

## Operative Dentistry, Dental Pathology and Bacteriology

PROFESSOR G. V. BLACK, PROFESSOR A. D. BLACK, PROFESSOR WILLARD,  
PROFESSOR GETHRO, AND ASSISTANTS

### DENTAL ANATOMY

#### FIRST YEAR

a. *Descriptive Anatomy of the Human Teeth*—Nomenclature. First semester. One lecture or recitation a week. Professor Gethro.

b. *Laboratory Course*—Studies of the forms of individual teeth; carving the tooth forms in bone or ivory; dissections and studies of the internal parts—pulp chambers and root canals. First semester. Nine hours a week. Professor Gethro and Assistant.

### OPERATIVE TECHNICS

#### FIRST YEAR

c. *Instruments and Instrumentation*—A study of instrument forms, instrument construction, and the adaptation of instruments to the excavation of cavities. First third of second semester. One lecture a week. Professor Gethro.

d. *Laboratory Course*—First third of second semester. Nine hours a week. Professor Gethro and Assistants.

e. *Cavity Nomenclature*—A study of the location of cavities in extracted teeth, of the forms of prepared cavities, of the naming of internal parts of cavities, and of the use of instruments in their preparation. Second third of second semester. One lecture a week. Professor Gethro.

f. *Laboratory Course*—Second third of second semester. Nine hours a week. Professor Gethro and Assistants.

g. *Filling Materials and Filling Teeth*—Last third of second semester. One lecture a week.

h. *Laboratory Practice*—Filling materials and filling prepared cavities; extracted teeth, ivory, or bone. Last third of second semester. Nine hours a week. Professor Gethro and Assistants.



## OPERATIVE DENTISTRY

## SECOND YEAR

i. *Technical Procedures in Cavity Preparation*—Cavity nomenclature; cavity preparation; principles, instruments and appliances, and instrumentation; cavity preparation, by classes of cavities. One lecture and recitation a week throughout the year. Professor Gethro.

j. *Technical Procedures in Filling Teeth*—Filling materials; instruments and instrumentation, physics of filling operations, and of finishing fillings. Porcelain inlays; preparation of cavities; formation of matrix; making and inserting inlays; gold inlays. Filling with amalgam, cements, gutta-percha. Exposure and removal of dental pulp. Preparation and filling of root canals. One lecture and recitation a week throughout the year. Professor Gethro.

k. *Operative Clinic*—Open to second year students four hours a day during the entire season. Operations amounting to one hundred points required in gold, and one hundred points in amalgam. Professors A. D. Black, Gethro and Assistants.

## OPERATIVE DENTISTRY

## THIRD YEAR

l. *Review of Technical Procedures in Filling Teeth*—One lecture or recitation a week throughout the year. Professor Willard.

m. *Pathology of Dental Caries*—Bacteriology of the human mouth; causative relation of bacteria to dental caries; caries of enamel; caries of dentin; inception and progress of dental caries; conditions of the beginning of dental caries; systemic causes of dental caries; susceptibility and immunity to dental caries; vital phenomena in dental caries; hyperesthesia of dentin; treatment of dental caries; curative effect of fillings; selection of filling materials. First semester. One lecture or recitation a week. Professor A. D. Black.

n. *Management of Patients*—Cleanliness; evil habits in chewing food, and their correction. Management of special conditions. Management of cavities by classes; extension for prevention and its limitations; esthetic considerations. Erosions, management of cases of erosion. Atrophy; management of cases of atrophy. First half of second semester. One lecture or recitation a week. Professor A. D. Black.



o. *The Childhood Periods*—Management of children; the special pathological conditions of the teeth, their membranes, the gums, etc.; treatment of caries of the deciduous teeth. The shedding of the deciduous teeth; accidents of the shedding process. Growth and absorption of the roots of deciduous teeth. Growth to completion and reduction of the size of the apical foramen of the permanent teeth. Second half of second semester. One lecture or recitation a week. Professor A. D. Black.

p. *Operative Clinics*—Open to third year students from 10:30 to 5:30 daily during term time. Operations amounting to two hundred points are required in gold, and two hundred points in amalgam. Professors G. V. Black, A. D. Black, Gethro and Assistants.

q. *Special Fillings*—Fillings are made under the instruction and immediate supervision of the special clinical instructors, and later full written descriptions of the conditions indicating the operation, the instrumentation and choice of instruments used, are submitted for grading as to excellence. Dr. Macfarlane and Dr. Idler.

## DENTAL PATHOLOGY AND THERAPEUTICS

### THIRD YEAR

r. *Review of the Structure and Functions of the Dental Pulp*—Hyperemia and inflammation of the pulp; capping exposed pulps; obtunding sensitive dentin. Pulp devitalization; pulp removal; treatment of canals; root filling; suppuration; the healing process; immunity and susceptibility; suppuration of the dental pulp; alveolar abscess; absorption of roots of teeth and of bone; caries of bone; necrosis. A study of germicides and antiseptics with laboratory tests. Bleaching teeth. First semester. One lecture a week. Professor G. V. Black.

s. *Peridental Membranes*—Review of histological structures; simple gingivitis; calcic inflammation; phagadenic pericementitis; replantation and transplantation of teeth; functions of the mucous membranes of the mouth; stomatitis; prophylaxis; mouth hygiene. First half of second semester. One lecture a week. Professor G. V. Black.

t. *Preventive Treatment and Oral Prophylaxis*—Preventive measures which may be employed by both dentist and patient. Cleanliness and care in relation to the health of the soft tissues. The rela-

tion between operative and prosthetic procedures to the diseases of the soft tissues. Second half second semester. One lecture a week. Professor G. V. Black.

u. Quizzes, one hour per week throughout the year. Professor Willard.

v. *Clinical Practice*—In addition to the above courses, third year students are required to make two hundred points in practical treatments in the Infirmary clinic, and to send in for examination and criticism a complete history of the conditions found and the treatment record of each of ten cases.

## Bacteriology

### THIRD YEAR

w. *Principles of Bacteriology*—The preparation of culture media; management of laboratory cultures; distinguishing varieties of micro-organisms in laboratory cultures; physiology of micro-organisms; poisons produced by micro-organisms; diseases caused by micro-organisms, particularly those of the teeth and mouth; susceptibility and immunity to diseases. One lecture a week. Professor Willard.

x. *Laboratory Work*—Preparation of culture media; planting and management of cultures; separation of species in mixed cultures; deriving pure cultures from infected animals; cultures from saliva, from mucous membranes and from carious teeth; staining, mounting, and microscopic studies; diagnosis of unknowns. Class divided into sections, each section three hours a week. Professor Willard.

## Oral Surgery

PROFESSOR GILMER, PROFESSOR POTTS, DR. MEYER,  
AND ASSISTANTS

### THIRD YEAR

a. *Surgical Bacteriology*—Inflammation; suppuration; wounds; hemorrhage; necrosis; caries of bones; disease of the maxillary sinus, resection of roots; tetanus; ankylosis; arthritis; facial neuralgia; fractures; dislocations; extraction of teeth; malposition of third molars; impacted teeth; replantation, transplantation, and implantation of teeth; cleft palate and harelip; affections of the lips, tongue and mouth; tumors; odontomes; ranula; cysts; aneurisms. One lecture a week. Professor Gilmer.

- b. *Recitations and Quizzes*—One hour a week. Dr. Meyer.
- c. *Surgical Clinic*—Two hours a week throughout the year. Professor Gilmer, Professor Potts, Dr. Meyer, Assistants and nurses from St. Luke's Hospital.
- d. *Special Clinical Instruction*—Diagnosis and case histories. One hour a week. Dr. Meyer.
- e. *After-Treatment of Surgical Cases*—By students, under direction of Professor Gilmer.
- f. *Clinic in the Extraction of Teeth, daily*—Open to second and third year students. Dr. Stowell.
- g. *The Evolution of General Surgical and Local Anaesthesia and Analgesia*—State of the patient; nature of operation; choice of anaesthetic; prolonged dental operations; circumstances of administration; inspection and examination of patients; general anaesthetic agents; local and regional anaesthetics, dangers of anaesthesia; ether, chloroform, nitrous oxid; nitrous oxid and oxygen for anaesthesia and analgesia. Second semester. One hour a week. Professor Potts.
- h. *Clinical Administration of Anaesthetics*—Oral surgery clinic. Two hours a week. Professor Potts.
- i. *Clinical Exhibition of Nitrous Oxid Anaesthesia*—Daily in extracting clinic. Dr. Stowell.
- j. *Radiography*—Five lectures and daily clinical instruction. Dr. Leach.

## Materia Medica and Therapeutics

PROFESSOR POUNDSTONE AND ASSISTANTS

### SECOND YEAR

- a. *The Sources and Various Forms of Drugs*—General and local action of drugs; agencies that modify the action of drugs; the art of prescribing medicines; a critical study of about one hundred drugs, classified according to their therapeutic and toxic action; a special laboratory study of escharotics, germicides, antiseptics, deodorizers. Systematic medication for dental purposes; dental prophylaxis; the use of germicides, antiseptics, escharotics, and astringents in dentistry. First semester. Two lectures a week. Second semester. One lecture a week. Professor Poundstone.

*Lectures and Recitations*—Professor Poundstone.

b. *Theses*—Each student is required to write five theses, of not less than three hundred words each, on subjects assigned.

c. *Clinical Practice*—The Infirmary is open to second year students four hours a day for the observation of conditions requiring the use of drugs and for clinical practice in their treatment. Each student is required to make one hundred points in clinical experience. See also Dental Pathology and Therapeutics.

d. *Laboratory Course*—Second semester. Class divided into sections, each section two hours a week.

## Orthodontia

PROFESSOR SELLERY, DR. BUCKLEY, AND ASSISTANTS

### THIRD YEAR

a. *Occlusion and Facial Art*—Etiology, classification, diagnosis of malocclusion. The alveolus and alveolar processes, the periodontal membranes, and use of models. First semester. One lecture a week. Professor Sellery.

b. *Regulating Appliances, Angle, Guilford, Knapp*—Anchors, jack screws, levers, traction screws, extension arch and combinations, split plates, reciprocal anchorages, retention. Illustrated with models, with movable teeth and enlarged appliances. Stereopticon views, illustrating progressive regulation and final fixation. Second semester. One lecture a week. Professor Sellery.

c. *Clinic or Infirmary Course*—Open to students during first and second semesters for practical work in the correction of practical cases. Professor Sellery, Dr. Buckley, and Assistants.

## Prosthetic Dentistry

PROFESSOR PROTHERO AND ASSISTANTS

### FIRST YEAR

a. *Prosthetic Technics*—This course covers the fundamental principles of denture construction and crown and bridge work, and accompanies the laboratory course. First semester. One lecture a week. Professor Prothero.



*Quiz and Recitation Work*—First Semester. One hour a week.

b. *Laboratory Course*—Impression taking, model constructing, occluding, waxing, flasking; packing, vulcanizing, and finishing partial and full artificial dentures. First semester. Nine hours a week. Professor Prothero, and Assistants.

c. *Metallography*—A descriptive course on the nature and physical properties of metals, especially those used in dentistry, with fundamental principles of their uses; the manipulation of metals, swaging, annealing, solders, and soldering, welding, tempering. Second semester. One lecture a week. Professor Prothero.

d. *Quiz or Recitation*—On the work of Courses a, b and c. Second semester. One hour a week.

e. *Laboratory Course*—Construction of dies and counter dies; swaging metal bases of German silver; attaching teeth by soldering and by vulcanite; construction of crowns and dummies, all metal, and metal and porcelain; assembling individual crowns and dummies to form bridges; constructing and tempering taps and dies of steel; drawing wire and tubing suitable for the construction of orthodontia appliances. Second semester. Nine hours a week. Professor Prothero, Dr. Stout, and Assistants.

#### SECOND YEAR

f. *Lecture Course*—Review of technic principles outlined in first year; their application to practical operations in the Infirmary. The physical properties of plaster of Paris and other materials employed in prosthesis. Muscles of mastication; force of the bite; movements of the lower jaw; natural arrangement and occlusion of artificial teeth. One lecture a week. Professor Prothero.

g. *Quiz or Recitation*—One hour a week.

h. *Laboratory Course*—Construction of full metal and partial metal base dentures, with teeth attached by soldering and by vulcanite; construction and application of clasps to partial dentures; advanced work in crowns and bridges. Nine hours a week. Professor Prothero, Dr. Leach, and Assistants.

i. *Prosthetic Clinic*—Each student is required to carry to completion for patients a number of practical cases, representing each of the various classes of prosthesis, amounting to at least one hundred points in crowns and bridges and one hundred points in plate work. Professor Prothero, Dr. Strong, Dr. Postle, and Assistants.

## THIRD YEAR

j. *A Critical Review*—Summary of recent methods and appliances; application of porcelain in prosthesis; baked porcelain crowns; porcelain bridges, full porcelain dentures; methods of cavity preparation for porcelain inlays; forming, baking, and setting porcelain inlay. Methods of obtaining wax models of cavities, forming investments, and casting, and setting gold inlays. The student is assigned a series of articles for reading, and is required to present a thesis covering the subject named. One lecture a week. Professor Prothero.

k. *Laboratory Course*—Cast aluminum base dentures; celluloid dentures; banded Logan crowns; baked porcelain crowns; porcelain bridges; continuous gum dentures. First semester. Six hours a week. Professor Prothero, Dr. Strong, Dr. Postle, and Assistants.

l. *Prosthetic Clinic*—Practical pieces of prosthetic work of all varieties made and fitted for patients in the Infirmary. Studies of the condition of the mucous membranes; the preparation of roots for crowns and the abutments of bridges; making and setting crowns and bridges, and preparation of cavities and setting porcelain or gold inlays. The minimum requirement is two hundred points in crowns and bridges and two hundred points in platework.

## Infirmaries

The Operative, Prosthetic, and Orthodontic clinic is open to students' infirmary practice from 10:30 A. M. to 5:30 P. M. each week day during the school year, and from 9 A. M. to 5 P. M. of each week day during the summer vacation. It is at all times abundantly supplied with patients. It is the intention that this infirmary practice shall be as much like an actual dental practice as possible. The development of the ability to obtain and hold a practice, the observance of professional courtesy toward patients essential to personal success, is regarded equal in importance to the development of manipulative ability.

## General Statements

### REQUIREMENTS FOR DEGREE

The degree of Doctor of Dental Surgery is conferred upon students recommended therefor by the Faculty of the School. Candidates are recommended who have attended the required courses of



lectures, who have passed satisfactorily all required examinations in the subjects of study, the entire last year having been completed in this School; who have completed the required clinical and laboratory work; who in the judgment of the Faculty are of fit moral character and are 21 years of age; and who have discharged in full all financial obligations to the University.

#### THE LIBRARY AND READING ROOM

The Menges Library and Reading Room, named in honor of the late Dr. Theodore Menges, occupies, together with the attached Journal Reading Room, three thousand feet of floor space. It is furnished with reading tables and chairs for about one hundred students. The Library contains 3,338 volumes of books on dental and collateral subjects; a fine supply of dictionaries and encyclopedias conveniently placed in the Reading Room for easy consultation; and a nearly complete list of the dental journals that have been published in the English language, with about 17,000 duplicate numbers. The books most used by the students are duplicated, up to six or twelve, and a few to fifteen copies. The books and journals may be used in the Reading Room without restriction, and when the duplication of volumes will allow, they may be drawn out as a circulating library.

#### THE MUSEUM

The Museum is in the Reading Room and is open to inspection and study. The cases are arranged to show the specimens to the best advantage.

The comparative anatomy specimens are, with the exception of the gorilla and chimpanzee, of which there are full skeletons, heads with the teeth. There is a sufficient number of varieties of each of the several orders to afford specimens of every kind of tooth form and of every variety of placement in mammals, saurians, and snakes, with a large variety of fishes.

The principal specimens of human skulls are, first, an excellent mounting of the separated bones of the adult; second, a fine set of dissections in a series showing the development of the teeth and the roots from the first appearance in the fetus to the full adult development, and illustrating the absorption of the roots of the deciduous teeth, the shedding process, and the replacement by permanent teeth; also the absorption of the alveolar processes after the loss of teeth,

with the changes that occur in the form of the bones of the jaws from childhood to old age. This is an exceptionally complete and valuable set of specimens. There is also a variety of ordinary human skulls.

The Museum contains also a valuable collection of human teeth of abnormal forms; a very full and complete set of specimens illustrating interproximal wear and the flattening of the points of interproximal contact. It is especially rich in casts of cases of supernumerary teeth; some illustrations of the very early forms of artificial teeth, of manufactured porcelain teeth, and of dental instruments, illustrating the development in these lines. This collection has been made in the School largely by students and by alumni, and is being continually increased by donations from those who have met with specimens unusual or rare in practice. Such donations are requested from all practitioners to assist in building up this great museum of abnormal conditions of teeth and of associated parts for the benefit of dental education.

#### THE UNIVERSITY DORMITORIES

One of the Dormitories in the University Quadrangle in Evanston is reserved for the students of the Dental School. These buildings are situated on the North Campus near the University Gymnasium, and within a five-minute walk to the Elevated trains with direct service to Chicago.

The buildings are architecturally beautiful and are meant to be models in comfort and sanitation. They are fireproof, lighted by electricity, and heated by steam, and amply furnished with shower baths. They will be cared for and provided with all necessary furniture.

The charge for each student for the use of a furnished single room, including care, heat and water, is \$100 a year. The student furnishes his own bedding and towels, but the University takes charge of the laundering of these. In the interest of economy, electric lighting is not included in the general charge, but is apportioned pro rata monthly to the occupants of the building.

Applications for the reservation of rooms should be made to the Secretary of the Dental School and should be accompanied by a deposit of \$10.

## TEXT-BOOKS

Text-books will be on sale in the Theodore Menges Library of the school at publishers' prices. There will be a small profit from the sale of these books, which will be used for the benefit of the library. Students are invited to purchase their books in the school and aid the library. Each student will be required to have the books designated below. The Reference books are in the library and may be used as needed.

## FIRST YEAR

*Anatomy*—Cunningham (new edition). \$6.00 Cloth. \$7.00 Sheep.  
*Dental Anatomy*—Black. \$2.50.  
*Operative Dentistry*—Black. \$10.00.  
*Prosthetic Dentistry*—Prothero. \$7.50.  
*Physiology*—Kirkes. \$3.00. Wiggin. \$2.00.  
*Gordin's Inorganic Chemistry*—\$3.00.  
*Exercises in Chemistry for Laboratory*—McPherson & Henderson. 40 cents.  
*Histology*—Bailey. Ed. 1914. \$3.50.  
*Medical Dictionary*—Stedman. \$4.50. Gould. \$1.00.

## SECOND YEAR

*Anatomy*—(Same as first year.)  
*Operative Dentistry*—Black. (Same as first year.)  
*Prosthetic Dentistry*—Prothero. (Same as first year.)  
*Physiology*—(Same as first year.)  
*Materia Medica*—Prinz. \$3.00.  
*Pathology*—Adami & McCrea. \$5.00.  
*Chemistry*—First Principles in Organic Chemistry—Gordin's. \$2.50.  
*Comparative Anatomy*—Thompson. \$1.50.  
*Histology*—Noyes. Dental Histology and Embryology. \$4.50.

## THIRD YEAR

*Operative Dentistry*—Black. (Same as first and second years.)  
*Prosthetic Dentistry*—Prothero. (Same as first and second years.)  
*Oral Surgery*—Blair's Special Surgery of the Mouth. \$5.00.  
*Orthodontia*—Angle. \$5.00.  
*Dental Jurisprudence*.  
*Bacteriology*—Williams. \$2.00.  
*Anesthesia*—Hewett.  
*Dental Pathology*—Black.

## REFERENCE BOOKS

*American System of Dentistry*.  
*Manual of Plate Work*—Haskell.  
*Crown and Bridge Work*—Evans.  
*Diseases and Injuries of the Teeth*—Smale and Colyer.  
*Principles of Surgery*—Senn.  
*The American Text-Book of Prosthetic Dentistry*—Essig or Turner.  
*The American Text-Book of Operative Dentistry*—Kirk.  
*Micro-Organisms of the Human Mouth*—Miller.  
*Micro-Organisms*—McFarland.  
*Dental Pathology and Pharmacology*—Burchard.  
*Long's Chemistry*.  
*Gray's Anatomy*.  
*Comparative Dental Anatomy*—Tomes, Thompson.  
*Regional Anatomy of the Head and Neck*—Eckley.  
*Anatomy*—Morris, Eckley.  
*Histology*—Piersol, Stohr, Lewis, Sobotta.  
*Materia Medica*—Stevens, Butler.

## INSTRUMENTS

The instruments essential to the students in the several departments of the school have been carefully studied and determined. Much care has been taken in the selection of the instrument sets that the variety of forms may be sufficient for the student's needs without being excessive. Close study of this subject and long, careful observation of students and the progress they make in the attainment of manipulative skill show their progress to be closely related to their instrument equipment. Therefore this school must demand that the instrument sets *required* be obtained by each student as a condition to his continuance in school work.

In operative dentistry it is found that a close adherence to the formula plan, in the study of cutting instruments particularly, is essential in teaching the important subject of cavity preparation, and this will be carried out critically in all the departments of the school. This teaching is begun in the technic classes and the same lines of instruction are followed progressively by teachers and demonstrators in all of the departments to the end of the Senior year, the same instrument sets being used throughout the course of study.

In prosthetic dentistry and in the several laboratories a similar care as to instruments is maintained.

The instruments in the list are *required* because they are essential to the student's progress, and students must provide them. *Students should not bring with them, nor purchase, instruments of other patterns, for they cannot be received as equivalents of the required sets.* They are the same as those that have been required in former years. No student is required to make changes in his instrument sets during his three years' course, and these instruments form his instrument equipment for entering practice after graduation.

## INSTRUMENTS AND APPLIANCES REQUIRED DURING THE FRESHMAN YEAR

### CUTTING INSTRUMENTS.

ORDINARIES.		
HATCHETS.	HOES.	
12-5-6	12-5-6	
8-3-6	8-3-6	
6-2-6	6-2-6	
12-5-12	12-5-12	
8-3-12	8-3-12	
6-2-12	6-2-12	
12-5-23	12-5-23	
8-3-23	8-3-23	
6-2-23	6-2-23	
SPECIALS.		
ENAMEL HATCHETS.		
Right, 20-9-12	Left, 20-9-12	
Right, 15-8-12	Left, 15-8-12	
Right, 10-6-12	Left, 10-6-12	
SPOONS.		
Right, 20-9-12	Left, 20-9-12	
Right, 15-8-12	Left, 15-8-12	
Right, 10-6-12	Left, 10-6-12	
GINGIVAL MARGIN TRIMMERS.		
Right, 20-(95)-9-12	Left, 20-(95)-9-12	
Right, 20-(80)-9-12	Left, 20-(80)-9-12	
Right, 15-(95)-8-12	Left, 15-(95)-8-12	
Right, 15-(80)-8-12	Left, 15-(80)-8-12	
BIN-ANGLE CHISELS.	STRAIGHT CHISELS.	
20-9-6	20	
15-8-6	15	
10-6-6	10	

### SIDE INSTRUMENTS.

HATCHETS.	CLEOID.	DISCOID.
5-3-28	3-2-28	20-3-12

### AMALGAM PLUGGERS.

30x10-7-12	10x30-7-12
35-7-12	15-7-12
1 Explorer, No. 3.	
1 each, Plugger Points, University.	
6x12-6-10 Parallelogram.	
5-10-3 Round.	
10-10-3 Round.	
20x5-2-18 Foot.	
Automatic Handle, No. 4.	

- 1 Black's special holding instrument.
- 1 each, Burnishers, Nos. 2, 26, 28.
- 1 Instrument Roll.
- 1 Hand Mallet, No. 5.
- 1 pair Foil Carriers, No. 12.
- 1 Cement Spatula, No. 24.
- 1 Mixing Tablet, No. 2.
- 1 Mortar and Pestle, No. 2.
- 1 oz. Absorbent Cotton.
- 1 Arkansas Stone, 2x5x $\frac{3}{4}$  inches.
- 1 Bottle of Oil.
- 1 Root Canal Plugger, No. 35.
- 1 Root Canal Plugger, No. 36.
- 1 box narrow Polishing Strips, assorted.
- 2 Broach Holders, handles of dissimilar color.
- 1 package Barbed Broaches, assorted.
- 1 box round gutta-percha root canal points, assorted.
- 1 Alcohol Lamp with Annealing Tray.
- 1 sheet Steel for Matrices, gauge 3-1000.
- 1 sheet Copper for Matrices, gauge 26.
- 1 Lowell Pin Vise.
- 1 Boley Millimeter Gauge.
- 1 Revolving Head Engine Bit Holder.
- 1 Pocket Lens, two glasses.
- 6 Medicine Bottles.
- 1 each, Engine Burs, Nos.  $\frac{1}{4}$ , 1, 3, 5, 7, 11, 16.
- 1 box Piano Wire, length 6 in., gauge 25.
- 1 Grobet File, half round, 5 in., No. 1.
- 1 Grobet File, half round, 5 in., No. 3.

### SPECIALS FOR FRESHMEN.

#### NOT REQUIRED AFTER THE FRESHMAN YEAR.

- 1 Work Box.
- 1 Card Board arranged for Tooth Sections.
- 1 Card Board arranged for Instrumentation.
- 1 set (6) Ivory Carving Blocks.
- 12 small Wood Blocks for Mounting.
- 1 Tooth Brush Handle.
- 1 Stick Black Sealing Wax.
- 1 Spool Black Silk.
- 1 piece Brass Tubing for cleaning files,  $\frac{3}{4}$ x6 inches.
- 50 pieces Brass Wire,  $\frac{1}{2}$  inches long, gauge 13.



IN ADDITION TO THE INSTRUMENTS AND APPLIANCES USED IN THE FRESHMAN YEAR, THE FOLLOWING ARE REQUIRED IN THE OPERATIVE CLINIC DURING THE JUNIOR AND SENIOR YEARS.

### GOLD FILLING INSTRUMENTS.

- 1 Automatic Mallet.
- 1 each Plugger Points.
  - 5- 1-23, Round.
  - 5- 2-23, Round.
  - 7½-10- 3, Round.
  - 5- 1- 0, Bayonet.
  - 7½- 3- 0, Bayonet.
  - 10x 5- 3- 3, Parallelogram.
  - 5x10- 3- 3, Parallelogram.
  - 12x 6- 6-10, Parallelogram.
  - 15x 5- 5-12, Foot.
  - 15x 5- 3-18, Foot.

### FINISHING INSTRUMENTS.

- 1 set of 3 Finishing Knives.
- 1 set of 6 File-cut Finishing Files.
- 1 Black's Saw Frame.
- 1 doz. Kaerber's Saws, one edge.
- 1 doz. Thread Saws.

### AMALGAM PLUGGERS.

- 35x15-7-12
- 25x7-12
- 15x5-7-12

### SCALERS.

- "G. V. Black School Set of Scalers," 12 instruments, as follows:
- 1 pair of Peridental Explorers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15, F. and B. (forward and backward curved blades).
- 1 pair of Pull Scalers, 15-8-6, R. and L.
- 1 pair of Pull Scalers, 15-8-12, R. and L.
- 1 pair of Push Scalers, 15-8-12, R. and L.
- 1 Cleoid Scaler, 25.
- 1 Sickle Scaler, 20.

### ENGINE AND INSTRUMENTS.

- Sizes of Burs are given in tenths of millimeters.
- | Burs, Round | Sizes | 6 | 8 | 12 | 16 | 20 |
|-------------|-------|---|---|----|----|----|
|             | Nos.  | ½ | 1 | 3  | 5  | 7  |
- 1 Dental Engine.
  - Burs, Inverted
 

Sizes	6	8	12	16	20
Nos.	33½	34	36	38	40
  - Burs, Fissure,
 

Sizes	6	8	12	16	20
Nos.	55½	56	58	60	62
  - Burs, Finishing,
 

Sizes	20	25	40	Bud	25
Nos.	218	219	222	Bud	225
  - Drills, bi-beveled
 

Sizes	8	10	12	16
Nos.	100	101	102	104
  - Drills, sq. end
 

Sizes	8	10
Nos.	114	115
  - Contra-angle hand piece and burs for engine.
  - 1 Porte Polisher, No. 307.
  - 1 box Wood Polishing Points.
  - 2 Mandrels, No. 303.

- 1 Mandrel, Morgan-Maxfield.
- 1 box Emery Paper Disks, ½ inch, grits Nos. 00, 1.
- 1 box each Sand Paper Disks, ⅝ inch, grits Nos. 00, 1.
- 1 box each Cuttlefish Paper Disks, ½ and ⅝ inch.
- 1 doz. Three Cornered Rubber Polishing Disks.

### ACCESSORIES.

- 1 "Northwestern" Instrument Case.
- 1 Mouth Mirror, No. 3.
- 1 Rubber Dam Punch.
- 1 Universal Rubber Dam Clamp Forceps.
- 1 pair Special Third-Molar Rubber Dam Clamps, right and left.
- 1 each Rubber Dam Clamps, Nos. 5, 9, 14, 18.
- 1 Hatch Cervical Clamp.
- 1 pair Rubber Dam Clamps for Roots.
- 1 spool of Waxed Floss.
- 1 Rubber Dam Holder.
- 2 Rubber Dam Weights.
- 1 Water Syringe, No. 22.
- 1 Chip Syringe, with valve in the back end.
- 1 Cotton Holder.
- 1 package Barbed Root Broaches, assorted.
- 2 Smooth Broaches.
- 1 Glass Slab for sterilizing broaches.
- 1 sheet Base Plate Gutta-Percha.
- 1 each Explorers, Nos. 3, 13, 14.
- 3 Perry Separators, A, B and C, or
- 1 Universal Separator, Perry or Worsley.

### MEDICINE LIST.

- 1 Case Medicine Bottles.
- ½ oz. Peroxid of Hydrogen.
- ½ oz. Oil Cassia, 1; Phenol, 2; Oil Wintergreen, 3.
- ½ oz. Eugenol.
- ½ oz. Eucalyptol.
- ½ oz. Phenol, 95 per cent.
- ½ oz. Tincture of Iodine.
- ½ oz. Glycerine, Iodine and Zinc.
- ½ oz. Tinct. Aconite, 1; Iodine, 1; Chloroform, 1.
- ½ oz. Dialized Iron.
- ½ oz. Tannic Acid.
- ½ oz. Chloro Percha.
- 1 Small Stick of Silver Nitrate.

### SURGICAL CASE (Seniors Only)

- 1 Leather Pocket Case.
- 1 Scalpel, 1½-inch blade.
- 1 Tenaculum.
- 1 Sharp Steel Probe.
- 1 Silver Probe.



- 1 Grooved Director.
- 1 Exploring Needle.
- 1 pair Artery Forceps,  $4\frac{1}{2}$  inch.
- 1 pair Surgeon's Scissors,  $4\frac{1}{2}$  inch, straight.

## PROSTHETIC DENTISTRY.

- 1 Plaster Bowl, "B."
- 1 Plaster Spatula, No. 17.
- 1 each Impression Trays, Uppers Nos. 2, 3, 22.
- 1 each Impression Trays, Lower Nos. 3, 15, 25.
- 1 "Improved Snow" Occluding Frame.
- 1 Snow's Face Bow.
- 1 box Pink Wax.
- 1 Prothero's Wax Spatula.
- 1 iron Vulcanite Flask, large size.
- 1 Flask Wrench, No. 10.
- 1 Vulcanite File, D. E., half round, 8 inches.
- 1 each Vulcanite Chisels, Nos. 14, 15.
- 1 each Kingsley's Finishers, Nos. 4, 5, 6.
- 1 Felt Cone, large blunt.
- 1 Felt Wheel, No. 2.
- 1 each Brush Wheels, Nos. 4, 20, 26.
- 2 Lathe Chucks.
- 1 Carborundum Wheel,  $1\frac{1}{2} \times \frac{1}{4}$  inch, grit "B."
- 1 Carborundum Wheel,  $1\frac{1}{2} \times \frac{1}{4}$  inch, grit "D."
- 1 Mechanical Saw Frame.
- 1 dozen each Mechanical Saws, Nos. 00, 2.
- 1 pair Plate Shears, Heinisch.
- 1 pair Curved Plate Shears, No. 5.
- 1 pair Round-nosed Pliers,  $4\frac{1}{2}$  inches, No. 107.
- 1 pair Flat-nosed Pliers,  $4\frac{1}{2}$  inches, No. 104.
- 1 pair Prothero's Contouring Pliers.
- 1 Horn Mallet.
- 1 Plate Punch No. 1.
- 1 Solder Tweezers, "A."
- 1 Solder Tweezers, "L."
- 1 pair Reese's Solder Pliers.
- 1 Prothero's Plate Burnisher.
- 1 Compound Blow Pipe.
- 1 Asbestos Soldering Block, No. 2.
- 1 Borax Slate.
- 1 Plate File, Grobert, half round, 5 inches, No. 3.
- 1 Gas Burner, No. 12, with spider.

- 18 inches Rubber Tubing,  $\frac{1}{4}$  inch.
- 54 inches Rubber Tubing,  $5/16$  inch.
- 1 spool Annealed Iron Wire, 36 gauge.
- $\frac{1}{2}$  lb. Special Asbestos.
- 1 Melotte's Moulding Outfit.
- 3 lbs. Babbitt Metal.
- 3 lbs. Counter-Die Metal.
- 1 set of (2) Casting Rings.
- 1 can Calcar or Moulding Sand.
- 5 dwts. Silver Solder.
- 1 bottle Separating Fluid.
- $\frac{1}{2}$  lb. Modeling Composition.
- 3 sheets Sandpaper, No. 1.
- 4 sheets Red Maroon Rubber.
- 1 bottle Shellac Varnish.
- 1 oz. Powdered Soapstone.
- 1 box Crystal Borax.
- 4 inches Steel Wire,  $\frac{1}{4}$  inch diameter.
- 12 inches German Silver Wire, 16 gauge.
- 1 Wire Soldering Frame, 4x4 inches.
- 1 pair Pliers, No. 121.
- 1 pair Plate Nippers, No. 3M.
- 1 Riveting Hammer "B."
- 1 piece of German Silver Plate, 22 gauge.
- 1 piece Aluminum Plate, 18 gauge.
- 1 pair Improved Ivory Cleavers.
- 1 pair Prothero's Files with No. 8 handles.
- 1 pair Crown and Collar Scissors, No. 11.
- 1 pair Contouring Pliers, Benson's.
- 1 pair Improved Hawk-bill pliers.

## SPECIAL FOR JUNIORS.

- 1 Martin Screw Plate, holes Nos. 0 to 12, series "B."
- 1 Draw Plate, special.
- $\frac{1}{2}$  lb. German Silver Plate, 28 gauge.
- 12 inches German Silver Wire, 14 gauge.
- 12 inches German Silver Wire, 16 gauge.
- 12 inches Stub's Steel Wire, 93-1000.

SPECIAL FOR SENIORS.  
PORCELAIN INSTRUMENTS.

- 1 "K" Pliers.
- 1 "K & D" Pin Vise.
- 1 pair Ball Pliers.
- 1 Porcelain Carving Instrument.
- 2 Camel Hair Brushes.
- 1 set Thompson's Burnishers, Nos. 1, 2, 5, 8.

In addition to the above list it is recommended strongly that each student obtain the quadrangle instruments, both the direct and the back-action, and the back-action pluggers to be used by mallet pressure. It is also recommended that each student obtain his own furnace for porcelain work and his own device for casting gold inlays, and make use of these while in school.

## SUMMER CLINICS

The clinic rooms will be open all the year for the benefit of students who may wish to have greater experience in clinical practice under competent supervision. The number of demonstrators during the summer will be ample for the class that may choose to remain with the school. The clinical material is abundant, and an excellent opportunity is afforded for clinical practice.

The value and adequacy of the clinical instruction and experience in practice to students is inestimable. The extent of it can be best understood by an examination of the subjoined condensed tabular statement, extracted from the Examiner's report for the year ending June 30, 1914:

1913	General	Special	Total
July .....	493	126	619
August .....	473	147	620
September .....	449	93	542
October .....	629	919	1,548
November .....	533	785	1,318
December .....	474	619	1,093
1914			
January .....	552	695	1,247
February .....	536	686	1,222
March .....	575	809	1,384
April .....	562	840	1,402
May .....	559	563	1,122
June .....	583	242	825
Carried forward from last year...	...	...	2,145
	6,418	6,524	15,087

The special patients are assigned to such students of their acquaintance as they ask to have take care of their cases, while the general patients are assigned by the Examiner to such students as need the particular experience and practice that their cases involve. Many of these general patients have come to the school for a number of years and continue to come in the same manner as they would go to the office of a dental practitioner. The school has thus acquired a very large clinic, really large enough for the instruction of a fairly large class of students, but the students are encouraged to have their friends ask for their especial services, as a step in the direction of the teaching of practice building.

The operations performed for these 15,087 patients during the year were 85,182 in the Operative, 5,547 in the Prosthetic, 389 in the Oral Surgery and 1,475 in the Orthodontia Department; a total of 94,068 separate operations. Among the operations performed in the Operative Clinic were:

- 18,995 fillings of all descriptions.
- 4,414 root fillings.
- 1,513 pulps devitalized.
- 2,117 pulps removed under cocain.
- 1,300 dead pulps removed.
- 1,592 other pulp treatments.
- 175 root canal treatments.
- 221 alveolar abscess treatments.
- 3 cases of apical pericementitis treated.
- 379 cases of pyorrhea treated.
- 5,417 cases of removal of calcareous deposits.
- 12,003 cases of extraction.
- 380 cases of administration of general anesthetics.
- 1,475 cases of administration of local anesthetics.
- 57 porcelain inlays.
- 991 cast gold inlays.

In the Prosthetic Department were made and inserted:

336 gold and porcelain bridges.....	1,058 teeth
636 shell crowns .....	636 teeth
124 Richmond crowns .....	124 teeth
12 porcelain crowns .....	12 teeth
197 banded Logan and cast base Davis crowns.....	197 teeth
504 plain Logan or Davis crowns.....	504 teeth
1,544 artificial dentures .....	16,984 teeth

Total teeth restored or replaced.....19,515

There were 1,010 plates, crowns and bridges repaired.

Of the 1,544 artificial dentures inserted there were:

- 22 gold plates.
- 3 celluloid plates.
- 13 aluminum plates.
- 1,499 vulcanite plates.
- 10 Watts' metal.

## Fees and Expenses

The annual fees in force for the year 1912-1913 are as follows:

FIRST YEAR	
Registration Fee .....	\$ 10.00
*Tuition .....	150.00
Anatomy Ticket .....	10.00
Chemical Laboratory .....	5.00
Histological Laboratory .....	5.00
Breakage Fee .....	1.00
Locker Fee .....	.50
	\$181.50
SECOND YEAR	
Registration Fee .....	\$ 10.00
*Tuition .....	150.00
Chemical Laboratory .....	5.00
Histological Laboratory .....	5.00
Breakage Fee .....	1.00
Locker Fee .....	.50
	\$171.50
THIRD YEAR	
Registration Fee .....	\$ 10.00
*Tuition .....	150.00
Final Examination .....	15.00
Breakage Fee .....	1.00
Locker Fee .....	.50
	\$176.50

### TIME WHEN PAYMENT OF FEES IS DUE

The registration fee must accompany the application for matriculation.

Tuition and the laboratory and breakage fees are payable at the beginning of the school year. Students must come prepared to pay the required fees upon entrance. They will not be admitted to lectures or laboratories unless fees are paid.

The final examination fee, for Seniors, is payable at the beginning of these examinations, and before the candidates for graduation can be admitted to them.

The Tuition Fee may, at the option of the student, be paid in two or three installments. If paid in two installments, \$78.00 must

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\*It is contemplated to increase tuition fee beginning with 1915-1916.

be paid on the day of entrance, and \$75.00 not later than February 20. If paid in three installments, \$55.00 must be paid on the day of entrance, \$50.00 on January 20 and \$50.00 on April 20.

#### STUDENTS' EXTRA FUNDS

Students who bring with them larger amounts of funds than their immediate requirements necessitate may deposit the same in the University business office, in the rotunda on first floor, and draw on this deposit from time to time as needed.

#### STUDENTS' LOCKERS

Lockers for the keeping of students' instruments, engines and extra garments are furnished at a rental of 50 cents per annum. Each student is required to furnish padlocks of his own for his lockers.

#### RETURN OF FEES

Tuition fees are not returned to students who are suspended or dismissed or absent for any cause except illness, and then only as a special concession by the Trustees. The registration fee is not returned in any case.

#### HOW PAYMENTS SHOULD BE MADE

Payments should be made in currency or in Chicago or New York exchange, drawn to the order of the Secretary of Northwestern University Dental School. Personal checks will not be accepted.

#### ROOMS AND BOARD

Rooms and board may be obtained in neighborhoods convenient to the school at \$5.00 to \$8.00 a week. Rooms without board, furnished or unfurnished, may be had at \$6.00 to \$10.00 a month.

\* A department of the Y. M. C. A. is maintained in our University Building, which looks especially to the students' interest in this direction.

In case students are compelled to do some outside work to assist them while attending school, this department will also endeavor to secure such employment as the student may be able to do without detriment to his educational work.



## Course for Graduates and Practitioners

The course opens on June 10, 1915, and continues four weeks, with six days of teaching each week. It includes two hours of lectures and six hours of practical teaching each day, by members of the regular staff of the School. Especial attention is given to porcelain and gold inlays, crowns, bridge work of all kinds, the treatment of pyorrhœa, and the most recent methods in Operative Dentistry, Oral Surgery, and Orthodontia. The studies for 1915 are:

*Operative Dentistry*—Professor A. D. Black and Professor Gethro.

*Histology, as applied to Operative Dentistry*—Professor Eisenstaedt.

*Oral Surgery*—Professor Gilmer and Assistants. Clinic each Friday.

*Dental Pathology and Therapeutics*—Professor G. V. Black and Professor Willard. This subject includes diseases of the soft parts, as of the pulp, abscesses, diseases of the gums, etc., met with in the practice of operative dentistry.

*Prosthetic Dentistry*—Professor Prothero and Assistants.

*Orthodontia*—Professor Sellery.

*Anesthesia*—Professor H. A. Potts.

*Extracting Clinic with Anesthesia*—Dr. C. F. B. Stowell.

*Dental Radiography*—Dr. F. D. Leach.

### PRACTITIONERS' COURSE FEES

*Registration* .....\$ 5.00

*Tuition for one subject*..... 45.00

*Tuition for two or three subjects*..... 60.00

*Tuition for the entire course*..... 70.00

Graduates of Northwestern University Dental School are allowed a reduction of 20 per cent from practitioner's fees.

### POST-GRADUATE COURSE LECTURE SCHEDULE, 1915

HOURS	MON.	TUES.	WED.
8:30— 9:30	Gethro	Gilmer	Sellery
9:30—10:30	Prothero	Willard	Prothero
HOURS	THURS.	FRI.	SAT.
8:30— 9:30	A. D. Black	Sellery	A. D. Black
9:30—10:30	Willard	Eisenstaedt	Prothero

*Oral Surgery Clinic*—Dr. Gilmer. Friday, 10:30—12:30.

*Extracting Clinic*—Dr. Stowell. 1:30 p. m. Monday and Wednesday.

*Anesthesia*—Dr. Potts. 1:30 p. m. Tuesday and Thursday.

*Radiography*—Dr. Leach. 11:30 Monday.

The laboratory and clinic will occupy the rest of the time.

## Dental School

## REGISTER OF STUDENTS, 1913-1914

## SENIORS

Alcorn, Clare Alexander...	Missouri	Dybing, Tenny .....	Norway
Anderson, Ross .....	Utah	Eberle, William Roy.....	Illinois
Anderson, Victor .....	Minnesota	Ellsworth, Jenkin .....	Wisconsin
Arganbright, Ned A.....	Iowa	Evans, Raymond A.....	Missouri
Armour, Ross .....	Nebraska	Ewing, Clyde D.....	Michigan
Auter, Stephen L.....	Illinois	*Feiman, Edward M. ....	Ohio
Babbitt, George Mason....	Illinois	Fenton, Harold Ray.....	Minnesota
Barkley, Gordon Charles..	Australia	Fillinger, Clinton .....	Wisconsin
Bechtel, Ray Emery....	North Dakota	*Fletcher, Cyrus Mehing...	Canada
Benson, John Theodore....	Illinois	Foss, William Fridtjof.....	
Bernhisel, Everett Clark....	Utah	.....	North Dakota
Bernhisel, John Milton.....	Utah	Frankel, Joseph Edward..	Wisconsin
Blackwell, Robert Edwin...	Illinois	Fraser, Charles Lyle.....	Montana
Brandt, Roy Obert.....	Montana	Freeland, Henry Lloyd....	Canada
Brooks, Anthony Wayne, B.S.,		Fritsch, Earl David.....	Illinois
.....	Mississippi	Funkhouser, Ira, B.S., Pg.B.	Indiana
Buchner, Elkanah Marshall..	Canada	Gallagher, John Connel..	Minnesota
Buttery, Horace Cayley....	England	Gange, Laurence Will..	South Dakota
Bybee, Jefferson J.....	Utah	Gasslander, Carl August T..	Illinois
Chappell, Rollo Mann.....	Illinois	*Gault, John Sturdivant....	Iowa
Chisolm, Patrick Donald...	Alabama	Green, Harris T., Jr.....	Texas
Chrisman, Edward W.....	Illinois	Green, Julius Caesar.....	Illinois
Christensen, Thomas Selmer..	Illinois	Grosser, Walter W.....	Illinois
Clarke, Marcus Alleque.....		Guggenheim, Emanuel .....	Illinois
.....	South America	Hamilton, Robert James..	Michigan
Clopper, Paul W.....	Illinois	Hanson, Harris G. ....	Wisconsin
Cohen, Sam.....	Wisconsin	Harper, William Charles....	Illinois
Colletti, Alexander Emanuel..	Illinois	Harpham, Ralph Barwick...	Illinois
Collins, John Joseph.....	Illinois	Harris, Jasper Earl.....	Iowa
Cools, Ludovic, M.D.....	Belgium	Haugen, Andrew .....	Illinois
Corlew, Jesse John.....	Illinois	Helm, Meredith .....	Minnesota
Couch, Mefford Jeremiah....	Illinois	Hemsworth, Amos Clark....	Iowa
Cruse, Milton .....	Illinois	Hipsh, Henry Davis.....	Tennessee
Crosthwait, Paul Vivian...	Missouri	Hirn, Frederick Joseph....	Michigan
Cultra, Vernon Ellsworth...	Illinois	Hollister, Harvey Franklin...	Iowa
Curry, D. English.....	Indiana	Holloway, Claude Arlie....	Illinois
Dallimore, Franklin Clyde....	Utah	Hopper, William Gerald..	Colorado
Daugherty, Frank Beeman...	Illinois	Horlick, Raymond Albert...	Illinois
Daunhauer, Max P. ....	Indiana	Horn, William Wallace, M.A.,	
Davy, Oakley .....	Illinois	Ph.D. ....	Indiana
DeBoer, Jelke .....	Illinois	Hurley, Charles M. ....	Indiana
Dickey, James Harvey.....	Illinois	Hurt, Arthur Edward.....	Illinois
Doering, Edward Robert....		Ingle, John James.....	Tennessee
.....	South Dakota	Irons, Charles Glenn..	West Virginia
Douglas, Sylvester .....	Oregon	*Iwato, K. ....	California
Dravel, William Frederick...			
.....	Wisconsin		
Drummond, John Francis...	Indiana		

\*Matriculated but not in attendance.

†Did not complete course.

- Jackson, Clarence Pefferce....Iowa  
 Jamison, William Flavous....Utah  
 Jaster, Alfred .....Germany  
 Jensen, Harold B. ....Oregon  
 Jirka, Robert Hugo.....Illinois  
 Johnston, Henry E. ....Iowa  
 Jordan, Jack Vernon.....Arkansas  
 Juel, Martin Oliver....South Dakota  
 Jung, Leo Henry.....Illinois  
 Kato, Chuji .....Japan  
 Kato, Seiji .....Japan  
 Kennedy, John Benton....Montana  
 Kettlewell, Norman....Minnesota  
 King, Benjamin Harrison.Wisconsin  
 Knaak, Albert Hugo....Minnesota  
 Kratky, Alfred Harry.....Illinois  
 Kremer, Leo W. ....South Dakota  
 Kroshus, George Levor....Minnesota  
 Kuehn, Nicholas E. ....Indiana  
 LaGrow, Asa Joseph.....Illinois  
 Lane, Lulu I. ....Illinois  
 Latham, Haidee W.....Illinois  
 Lehmann, Marie Luise....Germany  
 Lewis, William John.....Iowa  
 Lipsky, Julius Philip.....Illinois  
 Lomholt, Edel .....Denmark  
 Loomis, Milo Bennett.....Iowa  
 McKnight, Alves Elwood...Illinois  
 Martin, James Carl.....Iowa  
 Menges, Harry Dunbaugh...Illinois  
 Merwin, Benjamin Stephen...Wisconsin  
 Metcalfe, Earl Stanley.....Iowa  
 Miller, Anna Laura, A.B....Kansas  
 Mitchell, John H. ....Mississippi  
 Mortenson, Conrad Ervin....Utah  
 Moughalian, Levon Bedros..Turkey  
 Murray, Martin William....Illinois  
 Nolan, Arthur Harold.....Iowa  
 Oden, Guy Rain.....Texas  
 Olson, Caleb Jonathan...Wisconsin  
 Ordon, Henry James.....Russia  
 Page, Harold William...Minnesota  
 Pankonin, George Franklin...Minnesota  
 Parcels, Rue Priest.....Indiana  
 Park, Laurence Walter...Wisconsin  
 Patrick, Clifford Leo...South Dakota  
 Pett, Theodore Hall.....Ohio  
 Prail, Theodore Walter..Minnesota  
 \*Randall, Earl W.....Iowa  
 Rea, Victor Benton.....Michigan  
 Reeve, William Driver.....Utah  
 Rennie, Will John.....Minnesota  
 Ridgway, J. Emerson.....Illinois  
 Rivard, George Alexander...Maine  
 Rorer, Clarence Gleason...Illinois  
 Rose, Ross Shibley.....Canada  
 Rosenberg, Samuel Harris, A.B.,  
 .....Illinois  
 Ross, John S. ....Iowa  
 Russell, Robert M. ....Texas  
 Satek, Edward.....Illinois  
 Saeger, William, Jr. ....Nebraska  
 Schmidt, Joseph James.....Iowa  
 Schniedwind, Ernst Ambrose,  
 A.B. ....Illinois  
 Schwalen, Edward B. ...Minnesota  
 Serles, Maurice Charles....South Dakota  
 Sears, Ralph A. ....Iowa  
 Slack, Roy Bernard.....Iowa  
 \*Smestad, Aage .....Norway  
 Smith, Harry Alexander....Illinois  
 Soellner, Oscar Christian...Illinois  
 Soucek, Edward.....Illinois  
 Stanton, Charles John.....Illinois  
 Steffy, Chester Thomas...Montana  
 Stephens, Vernon F. ....Texas  
 Steward, Lester Earl.....Iowa  
 Stubbert, Frank Burton....Illinois  
 Sullivan, Edmund Francis...Illinois  
 \*Taylor, Herbert William...Illinois  
 Templeton, Leo Allen.....Kansas  
 Terry, Charles Roy.....Illinois  
 Terry, Graydon Mason.....Texas  
 Thomas, Newton George, B.A..Iowa  
 Thometz, John R. ....Illinois  
 \*Twohey, Frank J. ....Minnesota  
 Vinje, Svein .....Illinois  
 Weiler, Harvey B. ....Pennsylvania  
 Westling, Olaf Kunard..Minnesota  
 White, Thomas.....Illinois  
 Williams, Aubrey Thomas..Kentucky  
 Wills, Lellen Alva.....Wisconsin  
 Wilson, Roy Melville.....Iowa  
 Wodrich, William Henry....Iowa  
 Wollin, Erving.....Illinois  
 Wonder, Harold Dean....Colorado  
 Young, George William....Illinois  
 Zak, Charles Frank.....Illinois  
 Ziegler, Lorenz H. ....Iowa  
 Ziemke, Louis A. ....Wisconsin  
 Zwisler, John Albert.....Illinois

\*Matriculated but not in attendance.

†Did not complete course.

## JUNIORS

Adams, Ben Quincy.....Arkansas	Gunnarson, Agnar Theodore.....Minnesota
Aker, Henry Theodore.....South Dakota	Hall, Alex. Valfrid.....Sweden
Alzeno, Guernsey E.....Illinois	Halley, Richard C. ....Michigan
Andresen, Malcolm Kenneth.....Wisconsin	Halver, Glenn Atwood...Minnesota
Bacon, Francis Erastus, B.S.....Illinois	Harlem, Sigurd.....Norway
Bailey, Robert James.....Illinois	Hartgerink, James.....Michigan
Baker, Harry Willard.....Virginia	Hearne, Jack.....Texas
Barmack, Charles.....Illinois	Henderson, Lewis Bernhard..North Dakota
Barmack, David.....Illinois	Hendrickson, Dora Margareth.....Nebraska
Barnes, John Wesley.....Nebraska	Henry, Dale.....Oklahoma
Bartfield, Benjamin.....Illinois	Herzog, Roland Alfred...Wisconsin
Bergh, Harold Fleischer....South Dakota	Heyduck, John C. ....Illinois
Bower, Richard Leslie.....Ohio	Hines, Leo D. ....Minnesota
Bradbury, Arthur R. ....Illinois	Hoffman, Fred William.....Iowa
Braskamp, John Laurence.....Wisconsin	Hohf, Emanuel.....South Dakota
Brewer, John Bernard....Virginia	Holmberg, Henry Alexius.....Minnesota
Buettell, Ernest D. ...South Dakota	Homan, Carlton Clark.....Texas
Burton, Walter Ellis.....Minnesota	Hoover, B. ....Kansas
Cassidy, James Edwin.....Iowa	Howery, Benjamin Franklin..Wisconsin
Campbell, Robert Jean...Wisconsin	Hudson, King Claude.....Kansas
Cheese, Laurence .....Wyoming	Huff, Henry N. ....Wisconsin
Cohen, Samuel.....Illinois	Hurley, Roy F. ....Wisconsin
Cook, John Alden.....Iowa	Iio, Kenji .....Japan
Curtis, William R. ....Minnesota	Jacobson, Ferd Manfred....Washington
Davidson, Christian, Jr. ....Illinois	Jericho, Smith D. ....Iowa
Davidson, Claude Lyons....Canada	Jersin, George Burchard...Norway
Dawson, Donald Robert....South Dakota	Jessin, Lloyd A. ....Indiana
DeLarco, Samuel Michael...Illinois	Johnson, Christian Emanuel..Wisconsin
Donlevy, Frank Dearden...Illinois	Jones, Harry R. ....Wisconsin
Drew, Alfred James.....Illinois	*Jordan, Robert R.....Illinois
Duncan, Clyde Emerson....Illinois	Juel, Edwin C. ....South Dakota
Eaton, William Benjamin...Illinois	Jungman, William...South Dakota
Eggers, Carl Henry...South Dakota	Kaplan, Nathan N. ....Illinois
Eldridge, Robert Benjamin...Iowa	Kirchner, George C. ....Iowa
Epstein, Harry.....Illinois	Koch, August Henry.....Illinois
Esch, Oscar William.....Wisconsin	Kulvinsky, Harry Harold...Illinois
Evans, R. Mercer....North Dakota	Lam, Wah.....Hawaiian Islands
Fancher, Frank Harvey...Wisconsin	Larson, Elmer V. ....Minnesota
Fearn, Harvey.....Ohio	Lazear, Davies .....Illinois
Finn, William Selby.....Illinois	Le Grand, Jules.....B. W. I.
Fried, Isadore Alex. ....Illinois	Lehman, Hubert Joseph...Minnesota
Geyer, Claude Laurence....Illinois	Locher, Lawrence Raymond...Iowa
Gilbert, Glenn Roy.....Minnesota	
Goebel, Edwin Robert.....Illinois	
Griffith, Norman Sylvester...Pennsylvania	
Gruener, Joseph.....Illinois	

\*Matriculated but not in attendance.  
†Did not complete course.



- Long, Grace Marie.....England  
 \*Love, Horace Arthur.....Iowa  
 Lutterman, Eldredge J. ....Iowa  
 McCollough, Irvin Randolph..Texas  
 McIlrath, Hugh Allan.....Australia  
 Mastrud, Conrad Dalvin....  
     .....South Dakota  
 Matsuda, Riichi .....Japan  
 Merrifield, Raymond Hodges.  
     .....Wisconsin  
 Mikolas, Joseph Rupert, Jr..Illinois  
 Miller, William H.....Missouri  
 Moore, Arthur Roy.....Illinois  
 Morrison, William Reginald.  
     .....Canada  
 Mueller, Emil.....South Dakota  
 Munn, Frederick Stanley....Canada  
 Myhre, Barnerd O.....Wisconsin  
 Nadherny, Joseph F. ....Illinois  
 Nalencz, Ladislaus J. ....Illinois  
 Neptune, Greg .....Indiana  
 Nesler, William Mathias....Iowa  
 Newell, John Cooper.....Nebraska  
 Newton, Herbert Rudolph...Illinois  
 O'Farrell, James Daughtry...Texas  
 O'Keefe, Charles....North Dakota  
 Opegard, Henry A....Minnesota  
 Osborne, Weeden E.....Illinois  
 Page, Robert Ray.....Iowa  
 Parlin, Albert.....Illinois  
 Pearlman, Louis Henry....Indiana  
 Pederson, Hans Ferdinand...  
     .....Minnesota  
 Penberthy, LaVerne Edward.Illinois  
 Pennigsdorf, Walter.....Illinois  
 Perrin, Louis I. ....Michigan  
 Perry, Harold Tyner..North Dakota  
 †Pinkstaff, Ralph Waldo....Illinois  
 Placek, Bohumil .....Illinois  
 Price, Joseph E. ....Minnesota  
 Rank, Leo Francis.....Minnesota  
 Reid, Howard Hill.....Vermont  
 Rensvold, Philip Matthew...  
     .....South Dakota  
 Retter, Henry Helmuth Her-  
     man .....Wisconsin  
 Richards, Forrest Charles...  
     .....South Dakota  
 †Richter, Ernest Herman.....  
     .....South Dakota  
 Risetter, Ernest Adolph...Wisconsin  
 Roberts, Harold Cecil.....Indiana  
 Roe, Walter .....Illinois  
 Rovelstad, Henry Randolph.Illinois  
 Ryan, Francis Sylvester....Canada  
 Ryan, W. Spencer, M.D....Illinois  
 Sayre, Loren Dana.....Iowa  
 Schmitt, Eugene .....Illinois  
 Schoonmaker, William Francis  
     .....South Dakota  
 Schroeder, Henry John....Illinois  
 Schubert, Grover Oscar....Illinois  
 Seegmiller, George Andrew..  
     .....Wisconsin  
 Shipley, James Loraine....Illinois  
 Sletten, Carl Oliver...North Dakota  
 Smith, George D. ....Illinois  
 Snyder, Louis F. ....South Dakota  
 Snyder, Raymond Eugene....Illinois  
 \*Sommerfield, Nate .....Illinois  
 Sprafka, George Adam.....  
     .....North Dakota  
 Stenderson, Harry Gordon,B.S.  
     .....Canada  
 Stevens, Elliott Griffin....Illinois  
 Stromberg, Norvin .....Wisconsin  
 Thorelius, Carl Gustave Paul  
     .....Illinois  
 Trevett, Allison Burdette....Iowa  
 Tuchocki, Leo Victor.....Illinois  
 Tucker, Garland Lee.....Indiana  
 Underwood, William J....Wisconsin  
 Van Wye, Gail Howard...Indiana  
 \*Vitullo, John M.....Illinois  
 Walters, Charles Lee.....Montana  
 Warner, Dale .....Indiana  
 Watson, Wilbert S. ....Canada  
 Webb, Marion Ray.....Utah  
 Weickardt, Johannes Wilhelm  
     .....Germany  
 \*Weringhaus, William Ernest  
     .....Illinois  
 West, Emory Orville.....Iowa  
 Westfall, Beverly Kemper...Illinois  
 Wickstrom, Walter C. ....Illinois  
 Wilson, Erwin Harold.....Iowa  
 Wunderlich, Frederick Ran-  
     dolph .....Indiana  
 Young, Jerry W. ....Illinois  
 Zimmer, Earl Henry.....Illinois

\*Matriculated but not in attendance.

†Did not complete course.



## FRESHMEN

Adams, Angus Sanford.....Ohio	Davidson, Walter Joseph...Illinois
Adsit, Harry Brown....Minnesota	Dezsoefy, Charles Ludwig..Germany
Alexander, Waldo Emerson, B.A. ....Illinois	Duffy, John William.....Iowa
Alistair, Harris Ashton..North Dakota	Duhig, John Paul.....Illinois
Allison, Thomas Blythe...Arkansas	Dvorak, Lewis H. ....Idaho
Anderson, Ralph M.....Illinois	Ebersole, Louis Henry.....Illinois
Anderson, Reuben Alexander. .....Illinois	Erickson, Carl John.....Wisconsin
Aronberg, Albert .....Illinois	Feuerstein, Fred .....Illinois
Bauman, Arthur John.....Iowa	Fey, Laurence Christopher...Texas
Becker, Arthur Sanford....Illinois	†Fischer, Ferdinand .....Illinois
Behnke, Martin .....Wisconsin	Flavin, Charles John.....Indiana
Berthold, Arthur Hugo	Fodor, Julius S. ....Illinois
Rudolph .....Germany	Foley, Harold Edward..South Dakota
Bezeau, Frank G. ....Canada	Folsom, Dee Lenzi.....Utah
Black, Merle Thomas....Nebraska	Frazin, Julius .....Illinois
†Blaha, George W.....Illinois	Fuessle, Alfred Herman...Indiana
Blakeley, Chester Carmine..Nebraska	Fullenwider, Harlan Drue..Illinois
Blount, Joseph Horace....Georgia	Frink, Edward Charles.....
Bommersheim, Earle Ferdi- nand .....Michigan	.....North Dakota
Borum, Clifford Coe.....Wisconsin	Goodson, Leroy .....Texas
Brodkorb, Edward A..North Dakota	Gould, Louis .....Illinois
Burns, Leighton .....Illinois	Gorny, Stephen Stanley, Ph.G.
Burri, Otto C. ....Illinois	.....Illinois
Burrington, Therlo Edson..Minnesota	Grossman, Harry Aaron....Illinois
Burt, Holmes Clinton..Massachusetts	*Gunnarson, Chester Alvin..
Butler, Albert J. ....Iowa	.....Minnesota
Campbell, Francis Edwin...Illinois	Gunter, Alvin Guy.....Illinois
Caradine, Harold Benston... .....Wisconsin	Gutting, Arthur F. ....Wyoming
Carleton, Harry Joseph.....	Harris, Leon A. ....Illinois
.....South Dakota	*Hefter, Roy .....Illinois
Carlos, Thomas Aloysius....Illinois	Heller, Leopold Arthur.....Idaho
†Carmichael, Marshall W...Illinois	Henry Lee, Ph.G.....North Dakota
Carver, Parley James.....Utah	Herries, Henry Arthur.....Illinois
Chapek, Elmer Haenel.....Illinois	*Holland, Theodore Albert..Illinois
Chesnutt, Edwin Jackson, B.A..Ohio	Huff, Robert Eugene.....Texas
Clark, Stanley William....Indiana	Hughes, Benjamin Wm. ....Illinois
Clements, Raymond Charles..Illinois	Iddings, Maurice Homer...Indiana
Cohn, Max Arthur.....Illinois	Irwin, Vern Driscoll....Minnesota
Connolly, William Warren...Ohio	Isenson, Ernest .....Illinois
Coon, Corliss Dale.....Iowa	Iwamoto, John Harnhisa....Japan
Cowan, Egbert Van Delden...Iowa	Jacobs, Henry Albert.....Illinois
Crary, Earl Harrison..North Dakota	Johnson, Robert Van Ness, B.S. ....Illinois
*Crawford, Thomas...Pennsylvania	Johnson, Rufus George...Wisconsin
†Dalton, Bryan Genton.....	Joncas, Joseph Severin Ludger .....Canada
.....New Zealand	Kaplan, Herman Hymie..New York
Danhauer, Stanley A. ....Indiana	Karr, Ernest Cade.....Illinois

\*Matriculated but not in attendance.

†Did not complete course.

- Katrano, John .....Greece  
 Kaufman, Mervin .....Indiana  
 Kean, Albert Conkle.....Minnesota  
 Keck, William L. ....Illinois  
 Kellogg, John S. ....Illinois  
 Kelner, Sophie.....Illinois  
 Kessler, Laurence, A.B.....Illinois  
 Kimmel, Fred Joseph, Ph.G.  
     .....Montana  
 Kisner, Roy Markley.....Illinois  
 Klein, Daniel .....Illinois  
 \*Kline, Samuel G.....Illinois  
 Kohen, Michael Mitchell....Illinois  
 Kohout, James Joseph.....Illinois  
 Kral, Milo George.....Iowa  
 Kraschovetz, Joseph .....Russia  
 Krueger, Alonzo .....Illinois  
 \*Krueger, Emil E., Ph.G. Minnesota  
 †Lewis, Arthur R.....Illinois  
 Lieber, Morris .....Illinois  
 Lovegren, LeRoy Eldon.....Iowa  
 Luginbuhl, Albert C. ....Ohio  
 Lunden, Oskar Samuel.....Illinois  
 Lynn, Harold J. ....Illinois  
 †Lyon, Paul LeRoy.....Illinois  
 Magoon, Lloyd Vernor....Michigan  
 Maly, Lewis Walter....Wyoming  
 Marks, Rodney Hugh.....Illinois  
 Mayer, William Erwin.....Ohio  
 McArthur, Earl Donald....Canada  
 McCarthy, Thomas Joseph, B.A.  
     .....Illinois  
 McClintock, Wesley Heath..Illinois  
 McCurdy, Robert Melvin..Minnesota  
 McNamara, Paul Francis..Wisconsin  
 Merrifield, Frederick William  
     .....South Africa  
 Metz, Louis David....South Dakota  
 Meyer, Fred Henry.....Illinois  
 Miller, Isadore .....Illinois  
 Moes, Alvin Francis.....Iowa  
 Moore, Oliver Chester.....Illinois  
 Murray, William A. ....Illinois  
 \*Myre, Herman O. ....Minnesota  
 Nalborski, Edwin P. ....Wisconsin  
 Newby, Grant Wyman...Wisconsin  
 †O'Connell, Martin James..Illinois  
 Palmer, Kenneth R. ....Minnesota  
 Parker, Harry Wilfred.....Illinois  
 \*Pelletier, Edward Daniel..Canada  
 Peterson, Clarence Herbert..Illinois  
 Phillips, David Widmann...Illinois  
 Pollock, William A. ....Illinois  
 Quigley, Howard Joseph..Wisconsin  
 Ransom, Giles Arlington....Idaho  
 \*Rasmussen, Randolph Nicolay  
     .....California  
 Ratner, David Joseph ....Illinois  
 \*Reiseman, Henry .....Illinois  
 Richardson, George Henry..Illinois  
 Rosenblum, Maurice .....Illinois  
 Rosenhouse, Aaron J. ....New York  
 Ross, Richard .....Canada  
 Rowan, Thomas Francis....Illinois  
 Saltzman, Harry .....Illinois  
 Scandling, Orville Bennett..Michigan  
 Schmidt, Abrin Gustav, Jr..  
     .....Wisconsin  
 Schroeder, Joseph Paul....Illinois  
 Schruth, Joseph Charles..Wisconsin  
 Schultz, Charles G. ....Illinois  
 \*Schumaker, Joseph Robert..Illinois  
 Seaman, Ralph Barnes..South Dakota  
 Sears, Victor Hugo.....Illinois  
 Seely, Carl David.....Indiana  
 Shapiro, Charles Alter....Illinois  
 Shesler, John T. ....Indiana  
 Shipley, Everett Bronson....Iowa  
 Smith, Adelbert Nathan..Michigan  
 Smothers, I. Alonzo, B.S....Illinois  
 Snowden, Vaughn .....Indiana  
 Snyder, Roy Herbert.....Canada  
 Soffel, Arthur E.....Illinois  
 Sprague, Harry Elmer.....Iowa  
 Stansbury, George .....Illinois  
 Steffes, Eugene Q.....Indiana  
 Steiner, Allen N.....Wisconsin  
 Sterrett, Karl Herin.....Illinois  
 Stiles, Austin Campbell....Missouri  
 Tarbell, Glee.....South Dakota  
 Thon, Raymond A.....Minnesota  
 Trengove, Jesse Samuel.....  
     .....South Dakota  
 Urbanowicz, Edmund George  
     .....Illinois  
 Valentine, Frank B.....Iowa  
 Vander Wolf, Josephine....Illinois  
 \*Vincent, Lathen Stephen..Minnesota  
 Vorhees, Frank Henry.....Illinois  
 Wach, Charles Edward....Illinois  
 Wallace, Harold Harlow..Nebraska

\*Matriculated but not in attendance.  
 †Did not complete course.

Weinstock, Emanuel ..... Illinois  
 \*Welch, Emmet A. .... Minnesota  
 \*Welch, Harold William... Illinois  
 Welch, Will Carleton... New Mexico  
 Willard, George Earle..... Illinois  
 Williams, Harry Chadbourne.  
 ..... Wisconsin  
 Williams, Mark LeRoy.....  
 ..... North Dakota

Wiman, Lester ..... Illinois  
 Wood, Arthur ..... Illinois  
 Woods, Clement S.... North Dakota  
 Worthy, William Ernest.. Michigan  
 Wysong, Eldwyn A..... Ohio  
 Young, Albert O..... Illinois  
 Youngson, George N..... Nebraska  
 Zurawski, Arnold E..... Iowa

## SPECIAL STUDENTS IN ANATOMY

Anderson, Howard..... Iowa  
 Austin, William Henry.... Canada  
 Barber, George Franklin.. Tennessee  
 Boyer, Francis Elmer..... Michigan  
 Bunce, Harold Ross..... Indiana  
 Burdick, Warren Root..... Illinois  
 Cox, James Gilbert..... New York  
 Crawmer, Haskell Walter... Illinois  
 Frantz, William Earl..... Kansas  
 Fricke, George Spence..... Texas  
 Gunn, Walter Hazlett..... Illinois  
 Hoh, Charles Gwan..... China  
 Holdeman, Eugene Earl... Nebraska  
 Hoxsey, Lowell ..... Nebraska  
 Ironside, Oscar..... Canada  
 Keller, Oscar..... Connecticut  
 Knapp, Ralph Newell..... Missouri  
 Lentsch, Clarence Horner.. Kentucky  
 Marquardt, Willard Horace... Ohio  
 Miller, Harry A. .... Ohio

Mitchell, Robert Andrew.... Kansas  
 Neavles, Claud Arthur.... Colorado  
 Northrop, Charles Archer.. Michigan  
 Passmore, Austin ..... Illinois  
 Primrose, David C. .... Nebraska  
 Rother, William John... Minnesota  
 Roy, Walter Clarence..... Illinois  
 Scofield, Herbert Joseph.. Connecticut  
 Sellon, Raymond Newton.. Michigan  
 Sharp, Harry Grady.. North Carolina  
 Stoddard, Alonzo Edwin.. Minnesota  
 Walters, Karl Gress..... Ohio  
 Webster, Charles Ernest.... Illinois  
 Wertheim, Edgar ..... Illinois  
 Weston, Norman James... Australia  
 Wheelock, Frank Bascom.. Wisconsin  
 Wright, Everett Hartrum.... Ohio  
 Young, Elmer Frank..... Wisconsin  
 Zimmerman, Adelbert J..... Iowa

## SPECIAL STUDENTS IN DENTISTRY

Fetrow, Samuel W., D.D.S.. Indiana  
 Guerra, R. Rinaldi, D.S.....  
 ..... South America  
 \*Haik, Rudda ..... Syria  
 Saint-Pierre, William, D.D.S...  
 ..... Canada

Sartori, Santiago, D.S.....  
 ..... South America  
 Van der Ven, John, D.D.S.....  
 ..... Michigan

## PRACTITIONERS' CLASS, 1914

Bostrom, Annie Margareta..... Sweden  
 Dickinson, Henry Hugh, R. D. .... Idaho  
 Goldsworthy, Joseph, D.D.S..... Wisconsin  
 Harman, Uriah, D.D.S..... Virginia  
 Huhn, Lloyd Sanford, D.D.S..... Illinois  
 Hynek, Rudolf ..... Austria

\*Matriculated but not in attendance. †Did not complete course.

*Kirshner, Robert, D.D.S.....	New York
Lovelace, George Robert, D.D.S.....	Georgia
Murdoch, Herbert Spencer, D.D.S.....	New Mexico
Oliver, Oren Austin, D.D.S.....	Virginia
Olson, William Andrew, D.D.S.....	Montana
Rangeley, Frank Fairfield, D.D.S.....	Virginia
Sale, Charles Edward, L.D.S.....	Canada
Tisch, Henry Edmund, D.D.S.....	Wyoming
Watanabe, Takebumi, D.D.S.....	Japan
Wittenbrook, Frederick Holmes, D.D.S.....	Ohio
Young, George Dibrell, D.D.S.....	Florida

\*Not in attendance.

## Geographical Distribution of Students

	Seniors	Juniors	Freshmen	Specials	Post-Grad.	Total
Alabama .....	1	..	..	..	..	1
Arkansas .....	1	1	1	..	..	3
Australia .....	1	1	..	1	..	3
Austria .....	..	..	..	..	1	1
Belgium .....	1	..	..	..	..	1
California .....	1	..	1	..	..	2
Canada .....	4	6	6	3	1	20
China .....	..	..	..	1	..	1
Colorado .....	2	..	..	1	..	3
Connecticut .....	..	..	..	2	..	2
Denmark .....	1	..	..	..	..	1
England .....	1	1	..	..	..	2
Florida .....	..	..	..	..	1	1
Georgia .....	..	..	1	..	1	2
Germany .....	2	1	2	..	..	5
Greece .....	..	..	1	..	..	1
Hawaiian Islands .....	..	1	..	..	..	1
Hungary .....	..	..	1	..	..	1
Idaho .....	..	..	3	..	1	4
Illinois .....	60	55	87	7	1	210
Indiana .....	8	9	10	2	..	29
Iowa .....	22	15	12	2	..	51
Japan .....	2	2	1	..	1	6
Kansas .....	2	2	..	2	..	6
Kentucky .....	1	..	..	1	..	2
Maine .....	1	..	..	..	..	1
Massachusetts .....	..	..	1	..	..	1
Michigan .....	4	3	5	4	..	16
Minnesota .....	14	13	12	2	..	41
Mississippi .....	2	..	..	..	..	2
Missouri .....	3	1	1	1	..	6
Montana .....	4	1	1	..	1	7
Nebraska .....	2	3	4	3	..	12
New Mexico .....	..	..	1	..	1	2
New York .....	..	..	2	1	1	4

	Seniors	Juniors	Freshmen	Specials	Post- Grad.	Total
New Zealand .....	..	..	1	..	..	1
North Carolina .....	..	..	..	1	..	1
North Dakota .....	2	6	7	..	..	15
Norway .....	2	2	..	..	..	4
Ohio .....	2	2	6	4	1	15
Oklahoma .....	..	1	..	..	..	1
Oregon .....	2	..	..	..	..	2
Pennsylvania .....	1	1	1	..	..	3
Russia .....	1	..	..	..	..	1
South Africa .....	..	..	1	..	..	1
South America .....	1	..	..	2	..	3
South Dakota .....	6	15	6	..	..	27
Sweden .....	..	1	..	..	1	2
Syria .....	..	..	..	1	..	1
Tennessee .....	2	..	..	1	..	3
Texas .....	5	4	3	1	..	13
Turkey .....	1	..	..	..	..	1
Utah .....	8	1	2	..	..	11
Vermont .....	..	1	..	..	..	1
Virginia .....	1	2	..	..	3	6
Washington .....	..	1	..	..	..	1
West Indies .....	..	1	..	..	..	1
Wisconsin .....	12	18	13	2	1	46
Wyoming .....	..	1	2	..	1	4
Total .....	186	172	195	45	17	615
The number of women in- cluded in this table is....	5	2	2	1	1	11



### Officers for 1914-1915

L. H. ARNOLD, *President*, Chicago

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The annual clinics will be held Tuesday, June 8, 1915, at the University Building.

Through the medium of the Journal we have aroused a keener interest among the members of our Association.

All are requested to send in material of interest. The Journal will serve as a medium for the exchange of friendly greetings. A new interest will thus be aroused, and still better work done and more accomplished by our Association in the future.

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Any graduate of the Northwestern University Dental School may become a member of the Alumni Association upon payment of the membership fee of one dollar and fifty cents annually.

We ask that the Alumni will support this undertaking even stronger than in the past, and coöperate earnestly with the officers of the Association and the Journal staff in making our official publication a still greater success.

For any information regarding the Association, address the secretary,

DR. P. B. D. IDLER, *Secretary-Treasurer,*  
209 S. State St., Chicago.

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For information regarding the *School*, write DR. C. R. E. KOCH,  
31 W. Lake St., Chicago.

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